10.05.2022 19:32 Graded Quiz: Mastering SQL Joins | Coursera

Congratulations! You passed! Go to next item **Grade received** 100% **To pass** 80% or higher **Graded Quiz: Mastering SQL Joins Latest Submission Grade 100%** 1. Which of this type of join returns an output of only matching records in the two tables? (Select all that apply) 1/1 point **✓** JOIN **⊘** Correct Correct! This type of join returns those records which have matching values in both tables. LEFT JOIN ☐ FULL JOIN INNER JOIN **⊘** Correct Correct! This type of join returns those records which have matching values in both tables. 2. What is the golden rule for performing SQL joins? (Select all that apply) 1/1 point Find a related row or record in both tables Find a related column or field in both tables Correct! One important thing to note is, we can only join these two tables on their related or linking column or field, Find the unique and primary keys in both tables Find the linking field or column in both tables **⊘** Correct Correct! One important thing to note is, we can only join these two tables on their related or linking column or field, 3. Consider the tables with their respective fields below: 1/1 point employees: emp_id, dept_id, manager_id, last_name departments: dept_id, manager_id, dept_name, location_id You want to create a report displaying employees last names, department names and locations, Which query should you use to create an INNER JOIN? SELECT employees.last_name,departments.dept_name,departments.location_id FROM employees e 3 INNER JOIN departments D SELECT e.last_name, d.dept_name, d.location_id FROM employees e JOIN departments d ON e.dept_id = d.dept_id; SELECT last_name, dept_name, location_id FROM employees, departments; 1 SELECT e.last_name, d.dept_name, d.location_id FROM employees e 3 JOIN departments d; **⊘** Correct Correct! This syntax is correct. It specifies correctly the tables and respective fields. In addition, the JOIN keyword and the ON predicate was specified correctly. 4. How many records are in the dept_manager_dup table? (Please enter a numeric value/answer) 1/1 point 26 **⊘** Correct Correct! From the project, the dept_manager_dup table had 26 records. 5. The ON predicate in joins is written like a __ 1/1 point O DEFINE clause SELECT clause WHERE clause ○ FROM clause **⊘** Correct Correct! The ON predicate works exactly like the WHERE clause. It returns in the output where the two fields match. In fact, WHERE used to be the old way of writing join statements. However, ON is used due to query optimization. 6. Which of these is true of LEFT JOIN? (Select all that apply) 1/1 point All records from the left table that have no matching record from the right table. Correct! In addition to LEFT JOIN retrieving all matching records in both tables, it returns all values from the left table that match no values from the right table ✓ It returns all matching records in both tables **⊘** Correct Correct! The LEFT JOIN statement returns all matching records in both tables (that is, it works like INNER JOIN) ☐ All records from the right table 7. Consider two tables: dept_manager and departments 1 / 1 point Write a query that returns how many managers belong to different departments. (Select all that apply) 1 SELECT d.dept_name, COUNT(m.emp_no) FROM dept_manager m 3 JOIN departments d ON m.dept_no = d.dept_no GROUP BY d.dept_name; Correct! This query is syntactically correct. Since we need how many managers, the COUNT function is used. Additionally, the tables in question were correctly specified. Lastly, the GROUP BY clause was used because of the aggregate function used. 1 SELECT d.dept_name, COUNT(m.emp_no) FROM dept_manager m JOIN departments d 4 ON m.dept_no = d.dept_no GROUP BY dept_name;

	Correct Correct! This query is syntactically correct. Since we need how many managers, the COUNT function is used. Additionally, the tables in question were correctly specified. Lastly, the GROUP BY clause was used because of the aggregate function used. Whether we GROUP BY d.dept_name or just dept_name, they mean the same thing.	
	1 SELECT d.dept_name, COUNT(m.emp_no) 2 FROM dept_manager m	
	<pre>3 JOIN department d 4 ON m.dept_no = d.dept_no 5 GROUP BY d.dept_name;</pre>	
	6	
	1 SELECT d.dept_name, COUNT(m.emp_no) 2 FROM dept_manager m 3 JOIN departments d	
	4 ON m.dept_no = d.dept_no; 5	
8.	EMPLOYEES LAST_NAM DEPARTMENT_I SALAR V	1 / 1 poi
	Getz 10 3000 Davis 20 1500	
	King 20 2200 Davis 30 5000 Kochhar 5000	
	DEPARTMENT_I DEPARTMENT NA	
	DEPARTMENT_NA ME 10 Sales 20 Marketing	
	30 Accounts 40 Administration	
R	etrieve all employees last names, departments and salary, whether or not they have matching departments in the departments table. Which query would you use? 1 SELECT e.last_name, d.department_name, e.salary	
	2 FROM employees e 3 LEFT OUTER JOIN departments d 4 ON e.department_id = d.department_id;	
	1 SELECT e.last_name, d.department_name, e.salary	
	2 FROM employees e 3 RIGHT OUTER JOIN departments d 4 ON e.department_id = d.department_id;	
	5	
	1 SELECT e.last_name, d.department_name, e.salary 2 FROM employees e 3 FULL OUTER JOIN departments d	
	<pre>4 ON e.department_id = d.department_id; 5</pre>	
	Correct! This clearly shows a LEFT JOIN statement, since we are interested in joining the employees (the left table) to the departments (right table) whether they match or not with the departments table (right table)	
9. E	valuate this SQL statement:	1 / 1 poi
	<pre>1 SELECT e.employee_id, e.department_id, d.department_name, e.salary 2 FROM employees e, departments d</pre>	
	<pre>3 WHERE e.department_id = d.department_id; 4</pre>	
W	Thich SQL statement is equivalent to the above SQL statement?	
(2 FROM employees e 3 JOIN departments d	
	4 ON e.department_id = d.department_id; 5	
	1 SELECT employee_id, department_id, department_name, salary 2 FROM employees	
	<pre>3 JOIN departments 4 USING e.department_id, d.department_id; 5</pre>	
(1 SELECT employee_id, department_id, department_name, salary	
	2 FROM employees 3 WHERE department_id IN (SELECT department_id 4 FROM departments);	
	5	
	1 SELECT e.employee_id, e.department_id, d.department_name, e.salary 2 FROM employees 3 NATURAL JOIN departments;	
	Correct Correct! Using JOIN and ON gives the same result as the query in the result. Using WHERE is called the old join syntax. Using JOIN and ON is referred to as the new join syntax.	
	Although using WHERE or JOIN, the retrieved output is identical. However, using WHERE is more time-consuming. Therefore, the WHERE syntax is perceived as morally old and is rarely employed by professionals. The JOIN syntax allows you to modify the connection between tables easily.	
10. W	which of the following is true about FULL OUTER JOIN created on two tables Table 1 and Table 2?	1 / 1 poi:
	Retrieves both matched and unmatched rows of Table 1 and Table 2	
	Retrieves the unmatched rows of Table 2 Retrieves only matched rows of Table 1 and Table 2	
	Retrieves all the unmatched rows of Table 1	
	Correct Correct! In SQL the FULL OUTER JOIN combines the results of both left and right outer joins and returns all (matched or unmatched) rows from the tables on both sides of the join clause.	
	/hat is the proper way to write a DATE data type in SQL? YYYY/MM/DD	1 / 1 poi
	YYYY-MM-DD	
	DD-MM-YYYY	
	 ✓ Correct Correct! The proper format of a DATA data type is YYYY-MM-DD im that order 	
	p. open to the control of the fine of the	
12. H	ow many aggregate functions are in SQL?	1 / 1 poi
) 3) 6	
	○ Correct	

Correct! There are 5 aggregate fucntions. COUNT is one of the aggregate functions in SQL. Other aggregate functions are SUM (to get the sum of a numeric column, e.g salary), AVG (to get the average of a numeric column, e.g salary), MIN (to retrieve the minimum value of a column), MAX (to retrieve

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the maximum value of a column). Due to how **aggregate functions** work, they are also called **summarizing functions.**

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Graded Quiz: Mastering SQL Joins | Coursera 13. A record that has the same data value for every field of a table in SQL, is said to be a ______ record. 1 / 1 point Oistinct O Similar Duplicate O All of the above

⊘ Correct $Correct!\ In\ SQL, duplicate\ records\ also\ known\ as\ duplicate\ rows\ , are\ identical\ rows\ in\ an\ SQL\ table.\ A\ record\ that\ has$ the same data value for every field of the table. Duplicate records gives inaccurate or stale data, which leads to bad $reporting, skewed\ metrics, and\ poor\ sender\ reputation.$